

U.S. Patent Application Serial No. **10/537,911**
Response filed March 22, 2010
Reply to OA dated November 24, 2009

AMENDMENTS TO THE CLAIMS:

Please amend claims 1 and 2, as follows. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently amended): A hair curler wherein a heating element composed of a support plate having a heater fitted into an opening hole bored in the support plate, interposed between terminals inside of a cap having the terminals planted therein, and a pair of heat conductors each formed of a plate-like member and arcuate portions bent from both ends of the plate-like member, fixed to the terminals in such a manner as to hold the support plate from both sides, is contained inside a rod made of a heat resistant plastic having an opening at one end thereof so as to seal the opening with the cap.

Claim 2 (Currently amended): A hair curler wherein a heating element composed of a pair of heat conductors each formed of a plate-like member and arcuate portions bent from both ends of the plate-like member, having a heater therebetween fixed to terminals planted inside of a cap is contained inside a rod made of a heat resistant plastic having an opening at one end thereof so as to seal the opening with the cap.

Claim 3 (Canceled).

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Claim 4 (Previously presented): The hair curler of claim 2, wherein a portion of the heat conductor in contact with the heater is formed into a projecting surface.

Claim 5 (Previously presented): The hair curler of claim 2, wherein the terminals are insert-molded in the cap.

Claim 6 (Previously presented): The hair curler of claim 2, wherein the heat conductor is screwed in the terminal.

Claim 7 (Previously presented): The hair curler of claim 2, wherein the heat conductor is made of aluminum.

Claim 8 (Previously presented): The hair curler of claim 2, wherein the rod made of a heat resistant plastic is formed into an arcuate shape, in which the diameter at the center is smaller than those at both ends.

Claim 9 (Previously presented): The hair curler of claim 2, wherein at least one row of minute projections formed in a longitudinal direction of the rod made of a heat resistant plastic.

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Claim 10 (Previously presented): The hair curler of claim 2, wherein the cap and the support plate are made of a heat resistant plastic.

Claim 11 (Previously presented): The hair curler of claim 2, wherein the heat resistant plastic is a glass fiber reinforced polyester.

Claim 12 (Previously presented): The hair curler of claim 2, wherein the heat resistant plastic contains therein a far infrared radioactive substance and/or a minus ion producing substance.

Claim 13 (Previously presented): A hair wave device wherein the hair curler claimed in claim 2 is disconnectably connected to a cord extending from a distributor.

Claim 14 (Previously presented): The hair wave device of claim 13, wherein a plurality of the hair curlers are connected to the cord.

Claim 15 (Previously presented): The hair wave device of claim 13, wherein a base mount and a controller are disposed under and above a strut, respectively, and at least one container is turnably pivoted between the base mount and the controller.

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Claim 16 (Previously presented): A hair wave application method performing application by using the hair wave device claimed in claim 13 in a state in which the cord connected to the hair curlers is kept to be loosened.

Claim 17 (Previously presented): The hair curler of claim 1, wherein the heat conductor is formed of a plate-like member and arcuate portions bent from both ends of the plate-like member.

Claim 18 (Previously presented): The hair curler of claim 1, wherein a portion of the heat conductor in contact with the heater is formed into a projecting surface.

Claim 19 (Previously presented): The hair curler of claim 1, wherein the terminals are insert-molded in the cap.

Claim 20 (Previously presented): The hair curler of claim 1, wherein the heat conductor is screwed in the terminal.

Claim 21 (Previously presented): The hair curler of claim 1, wherein the heat conductor is made of aluminum.

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Claim 22 (Previously presented): The hair curler of claim 1, wherein the rod made of a heat resistant plastic is formed into an arcuate shape, in which the diameter at the center is smaller than those at both ends.

Claim 23 (Previously presented): The hair curler of claim 1, wherein at least one row of minute projections formed in a longitudinal direction of the rod made of a heat resistant plastic.

Claim 24 (Previously presented): The hair curler of claim 1, wherein the cap and the support plate are made of a heat resistant plastic.

Claim 25 (Previously presented): The hair curler of claim 1, wherein the heat resistant plastic is a glass fiber reinforced polyester.

Claim 26 (Previously presented): The hair curler of claim 1, wherein the heat resistant plastic contains therein a far infrared radioactive substance and/or a minus ion producing substance.

Claim 27 (Previously presented): A hair wave device wherein the hair curler claimed in claim 1 is disconnectably connected to a cord extending from a distributor.

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Claim 28 (Previously presented): The hair wave device of claim 27 wherein a plurality of the hair curlers are connected to the cord.

Claim 29 (Previously presented): The hair wave device of claim 27, wherein a base mount and a controller are disposed under and above a strut, respectively, and at least one container is turnably pivoted between the base mount and the controller.

Claim 30 (Previously presented): A hair wave application method performing application by using the hair wave device claimed in claim 27 in a state in which the cord connected to the hair curlers is kept to be loosened.